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TRANSMITTAL FORM

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Total Number of Pages in This Submission

10/4

Application Number	09/918,187
Filing Date	07/30/2001
First Named Inventor	Rosanne M. Crooke et al.
Issue Number	7,132,529
Confirmation Number	
Attorney Docket Number	ISPH-0590

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

Certificate
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of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Isis Pharmaceuticals, Inc.		
Signature			
Printed name	Frances R. Putkey		
Date	November 1, 2007	Reg. No.	57,257

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Pamela Grooms	Date	11-2-2007

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 7,132,529
 APPLICATION NO.: 09/918,187
 ISSUE DATE : 11/07/2006
 INVENTOR(S) : Rosanne M. Crooke et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1) Title Page:

Item [56], References Cited, OTHER PUBLICATIONS, "Benéet" reference, please delete "Benéet" and insert therefor --Bené et--;

2) Column 9, line 2, please delete "-CH₂-N (CH₃)-O-CH₂-" and insert therefor -- -CH₂-N(CH₃)-O-CH₂- --;

3) Column 9, line 37, please delete "O(CH₂)₂ON (CH₃)₂" and insert therefor -- O(CH₂)₂ON(CH₃)₂ --;

4) Column 9, line 41, please delete "2-O-CH₂-O-CH₂-N(CH₂)₂," and insert therefor --2'-O-CH₂-O-CH₂-N(CH₂)₂--;

5) Column 9, line 47, please delete "(-CH₂-)," and insert therefor --(-CH₂-)_n--;

6) Column 11, line 54, please delete "2,3, 5-triiodobenzoic" and insert therefor --2,3,5-triiodobenzoic--;

7) Column 20, line 1, please delete "(S0750)" and insert therefor --(SO750)--;

8) Column 20, line 3, please delete "(DA0750)" and insert therefor --(DAO750)--;

9) Column 22, line 48, please delete "GM_{M1}" and insert therefor --G_{M1}--;

10) Column 22, line 61, please delete "GM_{M1}" and insert therefor --G_{M1}--;

11) Column 30, line 61, please insert --. after "mL");

12) Column 31, line 21, please insert --. after "(4:1)";

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc.
 1896 Rutherford Rd.
 Carlsbad, CA 92008

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 2 of 3

PATENT NO. : 7,132,529
APPLICATION NO.: 09/918,187
ISSUE DATE : 11/07/2006
INVENTOR(S) : Rosanne M. Crooke et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- 13) Column 31, line 26, please delete "3'-o-acetyl-" and insert therefor -- 3'-O-acetyl- --;
- 14) Column 31, line 53, please delete "NH3" and insert therefor --NH₃--;
- 15) Column 32, line 12, please insert -- after "L)";
- 16) Column 32, line 64, please delete "5'-o-tert-Butyldiphe-" and insert therefor -- 5'-O-tert-Butyldiphe- --;
- 17) Column 33, line 23, please delete "5'-O-tert-Butyldiphenylsilyl2'-O-(2-hydroxyethyl)-5-me-" and insert therefor --5'-O-tert-Butyldiphenylsilyl-2'-O-(2-hydroxyethyl)-5-me- --;
- 18) Column 33, line 56, please delete "5'-O-tert-butyldiphenylsilyl2'-O-[(2-formadoximinoxy)]" and insert therefor --5'-O-tert-butyldiphenylsilyl-2'-O-[(2-formadoximinoxy)]--;
- 19) Column 33, line 58, please delete "5'-O-tert-Butyldiphenylsilyl2'-O-[N,N-dimethylami-" and insert therefor -- 5'-O-tert-Butyldiphenylsilyl-2'-O-[N,N-dimethylami- --;
- 20) Column 35, line 7, please delete "N2-isobutyryl-6-O-diphenylcarbamoyl2'-O-(2-ethy-" and insert therefor --N2-isobutyryl-6-O-diphenylcarbamoyl-2'-O-(2-ethy- --;
- 21) Colum 36, line 9, please delete "5'-O-Dimethoxytrityl2'-O-[2(2-N,N-dimethylaminoet-" and insert therefor -- 5'-O-Dimethoxytrityl-2'-O-[2(2-N,N-dimethylaminoet- --;
- 22) Column 39, line 59, please delete "SA" and insert therefor --5A--;
- 23) Column 41, line 25, please delete "TCCGTCATCGCTCCTCAGGG" and Insert therefor -- TCCGTCATCGCTCCTCAGGG--;

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1896 Rutherford Rd.
Carlsbad, CA 92008

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 3 of 3

PATENT NO. : 7,132,529
APPLICATION NO.: 09/918,187
ISSUE DATE : 11/07/2006
INVENTOR(S) : Rosanne M. Crooke et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

24) Column 41, lines 29-30, please delete "ATGCATTCTGCCCCCAAGGA" and insert therefor --
ATGCATTCTGCCCCCAAGA--;

25) Column 46, line 20, please delete "AGCCCGCCCG" and insert therefor --AGCCCGCCGG--.

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Carlsbad, CA 92008

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7/17/07 7:20:07